Ham-Equip Digest   Thu, 28 Apr 94   Volume 94 : Issue 127

Today's Topics:
                        Heath computer trainer
Help with ATV antenna tuning, UHF SWR meter advice, general ATV stuff?
          How to get more power out of handheld? (2 msgs)
                        TM732A mods question
          WWV time source for running NTP network (3 msgs)

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 27 Apr 94 13:43:08 -0600
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!darwin.sura.net!
atlas.tntech.edu!jmg@network.ucsd.edu
Subject: Heath computer trainer
To: ham-equip@ucsd.edu

For Sale Heath ETW-3400- Assembled microprocessor trainer
and EE-3401-A Complete training course.

This is in new condition.. most of course and manuals, and
tapes and parts still in original packages.

This is "The World's Most Popular Microprocessor Trainer"
used by many universities and is described in Heath's
current catalogs.

The ETW-3400-A sells for $499.95
The EE-3401-A course for $149.95

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                  Total =   $649.90
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I will sell this for $150 + shipping.

Jeff

Hi, I'm having some difficulty working with my ATV setup. I've got the AEA
VSB70, and I've built the 8-element quagi antenna from the ARRL book. I
don't seem to be getting the kind of performance I think I should, it's
pretty fuzzy at only three miles away with a direct line of sight. I need
some advice on how to go about tuning the antenna. What kind of test
equipment do people use? I've gone to both my local ham stores and they've
told me they don't have any SWR meters that will work up to 500MHz with
under one watt of power. With no SWR or power meter, it's pretty hard to
tune the antenna. Are there any other methods? Can anyone recommend a good
SWR meter? Or should I give up on making my own antenna and just buy one
(what the ham store recommended)? Anyone else with experience using the
8-element quagi for ATV? What kind of performance should I expect if it's
working properly?

Also, I'm thinking about getting an amp; probably the SAU-4 brick. Does
anyone have plans for putting an amp together with this module? Or any
recommendations for a better solution?

Finally, are there any ATV resources on the Internet, eg. mailing list, ftp
site, etc.?

Thanks in advance... <Jeff ve3 kyh

I am planning to purchase a dual-band HT. How can I get more power if I want to
transmit from my house or automobile?

Thanks,

Christopher S. Pak
Massachusetts Institute of Technology
Center for Space Research
37-487
77 Massachusetts Ave.
Cambridge, MA 02139
Phone: (617)253-9342
Fax: (617) 253-0861
E-mail: crispy@space.mit.edu

Date: 27 Apr 1994 19:58:57 GMT
From: ihnp4.ucsd.edu!swrinde!emory!news-feed-2.peachnet.edu!news-
feed-1.peachnet.edu!apollo1.cacd.rockwell.com!newsrelay.iastate.edu!
hobbes.physics.uiowa.edu!news.uiowa.edu!panda@network.ucsd.edu
Subject: How to get more power out of handheld?
To: ham-equip@ucsd.edu

In note <2pmbt3$rqo@senator-bedfellow.MIT.EDU>, crispy@space.mit.edu (Chris
Pak) writes:
>I am planning to purchase a dual-band HT. How can I get more power if I want
to
>transmit from my house or automobile?
>
>
>Thanks,
>
>--------------------------------------
>Christopher S. Pak
>Massachusetts Institute of Technology
>Center for Space Research
>37-487
>77 Massachusetts Ave.
>Cambridge, MA 02139
>Phone: (617)253-9342
>Fax: (617) 253-0861
>E-mail: crispy@space.mit.edu
>
The best way is to by an amplifier that is designed for low input power 1 to 5
watts and gives the desired output. Tweeking your handheld for higher power

will not really gain you that much ie 3 watts to 5 watts is only about 2.2 dB
gain, you can do that with a good antenna and your talk time will be reduced.

The opinions in this post are mine and my cat's, not my employer's.
scottm@csg.mot.com (Scott F. Migaldi, KF5JQ)

Date: Wed, 27 Apr 1994 12:34:38
From: ihnp4.ucsd.edu!swrinde!emory!news-feed-2.peachnet.edu!news-
feed-1.peachnet.edu!news.duke.edu!eff!news.kei.com!ssd.intel.com!chnews!
ornews.intel.com!ccm.hf.intel.com!brett_miller@network.UCSD
Subject: TM732A mods question
To: ham-equip@ucsd.edu

In article <draveyCoup7t.4xA@netcom.com> dravey@netcom.com (Donald Ravey) writes:

>I'm posting this for a friend who is considering buying a Kenwood
>TM732A. He is interested in the band limits after applying the mods for
>receiving above 800MHz. Has anyone applied the mods and what were the
>results? TIA & 73,

The only thing you have to do to receive 800MHz is hold down the MHZ button
while the UHF band is selected. There is a mod to add a cap that improves
sensitivity. I know the limits go through the cellular band, but I don't
remember how high.

Brett Miller N7OLQ   brett_miller@ccm.hf.intel.com
Intel Corp.
American Fork, UT

Date: 27 Apr 1994 18:44:25 GMT
From: ihnp4.ucsd.edu!usc!elroy.jpl.nasa.gov!netline-fddi.jpl.nasa.gov!nntp-
server.caltech.edu!news.claremont.edu!osiris!bbeechic@network.ucsd.edu
Subject: WWV time source for running NTP network
To: ham-equip@ucsd.edu

I'm looking for a black box that grabs the time signal from WWV and provides
the time source for NTP network. Is there such black boxes out there?

bbeechic@muddcs.hmc.edu

--=}>> On 27 Apr 1994 18:44:25 GMT, bbeechic@hmc.edu (Ben Beechick) said:

> I'm looking for a black box that grabs the time signal from WWV and provides
> the time source for NTP network. Is there such black boxes out there?

Hi. I'm looking for the exact same thing, so I thought I'd share my
progress so far.

Something I just learned recently is that the standard (voice) WWV on
5MHz, 10, etc has the timecode in it as a 100Hz audio signal. I tried
building a 100Hz detector (based on a 567/NTE832), but my shortwave
reception wasn't good enough for it to work, especially while the
computer was on.

Also, they send out just the raw pulsed carrier (same data) on 60KHz.
That seems to be the one most auto-clocks are using. I'd imagine you
could build a custom antenna to pick up 60KHz, but I'm just starting
to learn about this stuff..

I have the specs from NIST on the data format and timing, and it looks
very useful. I'd love a box that picks this up and feeds it into a
port.

I've found some Sun code for decoding a "stratum 1 CHU" signal, but I
don't know what that is or how to receive it. It describes a circuit
for detecting the tone using a 300baud FSK modem chip. I can send you
the file if you're interested.

Oh, in another file I also found a reference to a "Spectracom Model
8170 WWVB" clock with RS232 output. I can't find the company anywhere
or any more info on it. I did find a company called Spectracom in
Canada, but they are wicker chair importers, according to their
receptionist. :-)

Happy Hacking!
-Steve

Steve Haehnichen   Vigra, Inc. San Diego, CA
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Date: 28 Apr 94 06:01:03 GMT
From: dog.ee.lbl.gov!ihnp4.ucsd.edu!news.service.uci.edu!draco.acs.uci.edu!
iglesias@ucbvax.berkeley.edu
Subject: WWV time source for running NTP network
To: ham-equip@ucsd.edu

You might want to grab a copy of clock.txt from louie.udel.edu via
anonymous ftp. The file is in pub/ntp/doc. It has a list of all
sorts of gizmos to do what you want.

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Mike Iglesias   Internet: iglesias@draco.acs.uci.edu
University of California, Irvine   phone: (714) 856-6926
Office of Academic Computing   FAX: (714) 725-2069
Distributed Computing Support

End of Ham-Equip Digest V94 #127
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